



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

101759,334C

Source:

TEWO

Date Processed by STIC:

12-28-04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10159334C

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .J; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>.<223> section that some may be missing
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>.<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>.<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>.<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading):
 (xi) SEQUENCE DESCRIPTION SEQ ID NO X (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>.<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are Unknown, Artificial Sequence, or scientific name (Genus/species). <220>.<223> section is required when <213> response is Unknown or is Artificial Sequence.
- 11 Use of <220> Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section.
 (Sec "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING

DATE: 12/28/2004

PATENT APPLICATION: US/10/759,334C

TIME: 12:13:52

Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\12282004\J759334C.raw

3 <110> APPLICANT: Pruitt, Steven C.
 5 <120> TITLE OF INVENTION: Method for Comprehensive Identification of Cell Lineage
 Specific Genes

7 <130> FILE REFERENCE: 03551.0124
 9 <140> CURRENT APPLICATION NUMBER: 10/759,334C
 10 <141> CURRENT FILING DATE: 2004-01-16
 12 <150> PRIOR APPLICATION NUMBER: US 60/440,510
 13 <151> PRIOR FILING DATE: 2003-01-16
 15 <160> NUMBER OF SEQ ID NOS: 39
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 151
 19 <212> TYPE: DNA
 20 <213> ORGANISM: artificial sequence
 22 <220> FEATURE:
 23 <221> NAME/KEY: unsure
 24 <222> LOCATION: 19-32, 51-64, 83-96, 103-116, 147-151
 25 <223> OTHER INFORMATION: n is a,t,g or c
 27 <400> SEQUENCE: 1

W--> 29 tctagacagt ctggagagnn nnnnnnnnnn nntctagaca gtctggagag 50
 30 nnnnnnnnnn nnnntctaga cagtctggag agnnnnnnnn nnnnnntcta 100
 31 gannnnnnnn nnnnnnctct ccagactgtc tagacagtct ggagagnnnn 150
 32 n 151
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 18
 36 <212> TYPE: DNA
 37 <213> ORGANISM: artificial sequence
 39 <220> FEATURE:
 40 <223> OTHER INFORMATION: PCR Primer
 42 <400> SEQUENCE: 2
 43 ccgcttttct ggattcat 18
 45 <210> SEQ ID NO: 3
 46 <211> LENGTH: 21
 47 <212> TYPE: DNA
 48 <213> ORGANISM: artificial sequence
 50 <220> FEATURE:
 51 <223> OTHER INFORMATION: MAGE Universal Adapter
 53 <400> SEQUENCE: 3
 54 tctagaggac tgcgtgggag a 21
 56 <210> SEQ ID NO: 4
 57 <211> LENGTH: 25
 58 <212> TYPE: DNA
 59 <213> ORGANISM: artificial sequence
 61 <220> FEATURE:
 62 <221> NAME/KEY: unsure

Does Not Comply
 Corrected Diskette Needed

Pls explain

Source of genetic material.

See item #

11 on error
 Summary
 Sheet.

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TIME: 12:13:52

Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\12282004\J759334C.raw

```

63 <222> LOCATION: 24,25
64 <223> OTHER INFORMATION: MAGE Universal Adapter; n is a,t,g or c
66 <400> SEQUENCE: 4
W--> 67 cctcgccac gcagtcctct agann      25
69 <210> SEQ ID NO: 5
70 <211> LENGTH: 19
71 <212> TYPE: DNA
72 <213> ORGANISM: artificial sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: MAGE PCR Primer
77 <400> SEQUENCE: 5
78 cctcgccac gcagtcctc      19
80 <210> SEQ ID NO: 6
81 <211> LENGTH: 18
82 <212> TYPE: DNA
83 <213> ORGANISM: artificial sequence
85 <220> FEATURE:
86 <223> OTHER INFORMATION: MAGE PCR Primer
88 <400> SEQUENCE: 6
89 cggctgggtg tggcggac      18
91 <210> SEQ ID NO: 7
92 <211> LENGTH: 16
93 <212> TYPE: DNA
94 <213> ORGANISM: Mus musculus
96 <400> SEQUENCE: 7
97 ggcgacacgc gcacct      16
99 <210> SEQ ID NO: 8
100 <211> LENGTH: 16
101 <212> TYPE: DNA
102 <213> ORGANISM: Mus musculus
104 <400> SEQUENCE: 8
105 agggaggaga tgtagt      16
107 <210> SEQ ID NO: 9
108 <211> LENGTH: 16
109 <212> TYPE: DNA
110 <213> ORGANISM: Mus musculus
112 <400> SEQUENCE: 9
113 actacatctc ctccct      16
115 <210> SEQ ID NO: 10
116 <211> LENGTH: 16
117 <212> TYPE: DNA
118 <213> ORGANISM: Mus musculus
120 <400> SEQUENCE: 10
121 gggttgtctt cactct      16
123 <210> SEQ ID NO: 11
124 <211> LENGTH: 16
125 <212> TYPE: DNA
126 <213> ORGANISM: Mus musculus
128 <400> SEQUENCE: 11

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Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\12282004\J759334C.raw

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129 cccaggatgt atagct 16
131 <210> SEQ ID NO: 12
132 <211> LENGTH: 16
133 <212> TYPE: DNA
134 <213> ORGANISM: Mus musculus
136 <400> SEQUENCE: 12
137 agtctggaaa cctgtc 16
139 <210> SEQ ID NO: 13
140 <211> LENGTH: 16
141 <212> TYPE: DNA
142 <213> ORGANISM: Mus musculus
144 <400> SEQUENCE: 13
145 actacatctc ctacct 16
147 <210> SEQ ID NO: 14
148 <211> LENGTH: 16
149 <212> TYPE: DNA
150 <213> ORGANISM: Mus musculus
152 <400> SEQUENCE: 14
153 aggtaagtgc tgctgc 16
155 <210> SEQ ID NO: 15
156 <211> LENGTH: 16
157 <212> TYPE: DNA
158 <213> ORGANISM: Mus musculus
160 <400> SEQUENCE: 15
161 aggtaagtac aagctg 16
163 <210> SEQ ID NO: 16
164 <211> LENGTH: 16
165 <212> TYPE: DNA
166 <213> ORGANISM: Mus musculus
168 <400> SEQUENCE: 16
169 acctcagttg attcct 16
171 <210> SEQ ID NO: 17
172 <211> LENGTH: 16
173 <212> TYPE: DNA
174 <213> ORGANISM: Mus musculus
176 <400> SEQUENCE: 17
177 agctttgaat tcatga 16
179 <210> SEQ ID NO: 18
180 <211> LENGTH: 16
181 <212> TYPE: DNA
182 <213> ORGANISM: Mus musculus
184 <400> SEQUENCE: 18
185 tttctcaggg tagcct 16
187 <210> SEQ ID NO: 19
188 <211> LENGTH: 16
189 <212> TYPE: DNA
190 <213> ORGANISM: Mus musculus
192 <400> SEQUENCE: 19
193 tccgctcaat gtacct 16
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RAW SEQUENCE LISTING

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Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\12282004\J759334C.raw

195 <210> SEQ ID NO: 20
196 <211> LENGTH: 16
197 <212> TYPE: DNA
198 <213> ORGANISM: Mus musculus
200 <400> SEQUENCE: 20
201 aggggttgac tcaagg 16
203 <210> SEQ ID NO: 21
204 <211> LENGTH: 16
205 <212> TYPE: DNA
206 <213> ORGANISM: Mus musculus
208 <400> SEQUENCE: 21
209 actacatctc ctccgt 16
211 <210> SEQ ID NO: 22
212 <211> LENGTH: 16
213 <212> TYPE: DNA
214 <213> ORGANISM: Mus musculus
216 <400> SEQUENCE: 22
217 cacgggggag gagcct 16
219 <210> SEQ ID NO: 23
220 <211> LENGTH: 16
221 <212> TYPE: DNA
222 <213> ORGANISM: Mus musculus
224 <400> SEQUENCE: 23
225 aggtaaccct gtgctg 16
227 <210> SEQ ID NO: 24
228 <211> LENGTH: 16
229 <212> TYPE: DNA
230 <213> ORGANISM: Mus musculus
232 <400> SEQUENCE: 24
233 aggttagacta cttgtg 16
235 <210> SEQ ID NO: 25
236 <211> LENGTH: 16
237 <212> TYPE: DNA
238 <213> ORGANISM: Mus musculus
240 <400> SEQUENCE: 25
241 cgccatcgct ctagct 16
243 <210> SEQ ID NO: 26
244 <211> LENGTH: 16
245 <212> TYPE: DNA
246 <213> ORGANISM: Mus musculus
248 <400> SEQUENCE: 26
249 aggtcatca gctgac 16
251 <210> SEQ ID NO: 27
252 <211> LENGTH: 16
253 <212> TYPE: DNA
254 <213> ORGANISM: Mus musculus
256 <400> SEQUENCE: 27
257 aggtgtggat ccagag 16
259 <210> SEQ ID NO: 28

RAW SEQUENCE LISTING

DATE: 12/28/2004

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TIME: 12:13:52

Input Set : A:\PTO.SR.txt

Output Set: N:\CRF4\12282004\J759334C.raw

260 <211> LENGTH: 16
261 <212> TYPE: DNA
262 <213> ORGANISM: Mus musculus
264 <400> SEQUENCE: 28
265 aggtaggtct c gatct 16
267 <210> SEQ ID NO: 29
268 <211> LENGTH: 16
269 <212> TYPE: DNA
270 <213> ORGANISM: Mus musculus
272 <400> SEQUENCE: 29
273 agaatacgat acccag 16
275 <210> SEQ ID NO: 30
276 <211> LENGTH: 16
277 <212> TYPE: DNA
278 <213> ORGANISM: Mus musculus
280 <400> SEQUENCE: 30
281 agggcatttc tattac 16
283 <210> SEQ ID NO: 31
284 <211> LENGTH: 16
285 <212> TYPE: DNA
286 <213> ORGANISM: Mus musculus
288 <400> SEQUENCE: 31
289 agctaatacac caaagc 16
291 <210> SEQ ID NO: 32
292 <211> LENGTH: 16
293 <212> TYPE: DNA
294 <213> ORGANISM: Mus musculus
296 <400> SEQUENCE: 32
297 aggatccact gtttac 16
299 <210> SEQ ID NO: 33
300 <211> LENGTH: 16
301 <212> TYPE: DNA
302 <213> ORGANISM: Mus musculus
304 <400> SEQUENCE: 33
305 aggtcctgcc tcagca 16
307 <210> SEQ ID NO: 34
308 <211> LENGTH: 16
309 <212> TYPE: DNA
310 <213> ORGANISM: Mus musculus
312 <400> SEQUENCE: 34
313 aggtcctgcc tcagca 16
315 <210> SEQ ID NO: 35
316 <211> LENGTH: 16
317 <212> TYPE: DNA
318 <213> ORGANISM: Mus musculus
320 <400> SEQUENCE: 35
321 aggactgatt gtggtg 16
323 <210> SEQ ID NO: 36
324 <211> LENGTH: 16

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/759,334C

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TIME: 12:13:53

Input Set : A:\PTO.SR.txt
Output Set: N:\CRF4\12282004\J759334C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 51, 52, 53, 54, 55, 56
Seq#:1; N Pos. 57, 58, 59, 60, 61, 62, 63, 64, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94
Seq#:1; N Pos. 95, 96, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115
Seq#:1; N Pos. 116, 117, 118, 119, 150, 151
Seq#:4; N Pos. 24, 25

VERIFICATION SUMMARY

DATE: 12/28/2004

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Input Set : A:\PTO.SR.txt

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L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

M:341 Repeated in SeqNo=1

L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0